

Technical Information



SOLARKOTE™ H312M

Overview

SOLARKOTE™ H312M is an impact modified specialty grade thermoplastic acrylic resin formulated for capstock coextrusion. It is characterized by high melt flow with excellent processability and weatherability. Key applications include building & construction and custom sheet markets, where matte texture is desired. Primarily used as cap layer for HIPS, PVC, PVDF and other composite substrates.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Mass-Flow Rate (MFR)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Water Absorption (24 hr)	0.37 %	0.37 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	238000 psi	1640 MPa	ASTM D638
Tensile Strength (Yield)	4900 psi	33.8 MPa	ASTM D638
Tensile Elongation (Break)	53 %	53 %	ASTM D638
Flexural Modulus	195000 psi	1340 MPa	ASTM D790
Flexural Strength (Yield)	6100 psi	42.1 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.70 ft-lb/in	37 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (L-Scale)	53	53	ASTM D785
Pencil Hardness	F-2H	F-2H	ASTM D3363
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load ¹			ASTM D648
66 psi (0.45 MPa), Annealed	150 °F	65.6 °C	
264 psi (1.8 MPa), Annealed	129 °F	53.9 °C	
Vicat Softening Temperature	209 °F	98.3 °C	ASTM D1525 ²

Additional Information

This SOLARKOTE™ Acrylic formulation is designed to effectively screen out high energy UV wavelength at 0.006" (6.0 mil) thickness.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Annealing Cycle: 4 hours at 176 °F (80 °C)

² Rate A (50°C/h), Loading 1 (10 N)

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